Whirlpool Europe
Customer Services

Whirlpool

Service Manual

Microwave oven
AVM 591

Model AVM 591
Version 8538 591 01291

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This documentation is only intended for qualified technicians who are aware of the respective safety regulations.

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Subject to modification

Introduction safety

INTRODUCTION

Before leaving the factory each oven is carefully checked.
It must, however, be installed and used correctly.

Despite all the steps taken to make the oven safe, the safety is dependent on the correct installation and the fact the user understands how to use and maintain the oven.

The information in this section should be used as a reminder that the oven is safe and that anyone who uses it must first read the instructions for use in order to be able to use the oven correctly and obtain best results.

SAFETY

To avoid injury to yourself and damage to the appliance always work to the following rules when servicing an oven.

Always disconnect the plug from the mains before starting work.

If there is no plug switch off the electric supply at the control box.

When you have finished servicing an oven before you reconnect it to the mains, make sure that:
- all the internal connections are correct
- the wires are insulated and not touching the door or the cabinet or anything sharp
- all the earth connections are electrically and mechanically sound
- do not modify or anyway interfere with the safety devices built-in to the oven

- make sure that each replacement part you use conforms to the manufacturer´s specifications

Do not start a repair if you have any doubt as to your ability to complete it.

CAUTION - MICROWAVE RADIATION

PERSONNEL SHOULD NOT BE EXPOSED TO THE MICROWAVE ENERGY WHICH MAY RADIATE FROM THE MAGNETRON, WAVEGUIDE OR ANTENNA IF THEY ARE IMPROPERLY USED OR CONNECTED. ALL INPUT AND OUTPUT MICROWAVE CONNECTIONS, WAVEGUIDES, FLANGES AND GASKETS MUST BE SECURE.
NEVER OPERATE THE DEVICE WITHOUT A MICROWAVE ENERGY ABSORBING LOAD ATTACHED.
NEVER LOOK INTO AN OPEN WAVEGUIDE OR ANTENNA WHILE THE DEVICE IS ENERGIZED.
NEVER OPERATE AN OVEN WITH CABINET OFF WITHOUT MEASURING THE MICROWAVE LEAKAGE AROUND MAGNETRON AND VISIBLE MICROWAVE CONNECTIONS (WELDING JOINTS).

Do not operate the oven if the following conditions exist:
- the door does not close firmly against the door support because of the door being warped or the hinges damaged.
- The door trims or seals are damaged.
- If there is any visible damage to the oven.
- if the door does not close properly.

Avoid operating the oven if known components in the interlock system, oven door or microwave generating assembly are known defective. They must be replaced.

WARNING - HIGH VOLTAGE

IT IS POSSIBLE TO COME IN CONTACT WITH LETHAL HIGH VOLTAGE WHEN WORKING WITH HV TRANSFORMER, HV CAPACITOR AND MAGNETRON. THEREFORE NEVER TRY TO MEASURE THE HIGH VOLTAGE. ALWAYS TAKE UTMOST CARE WHEN PERFORMING ELECTRIC MEASUREMENTS INSIDE THE OVEN.

Technical data

Dimensions of cabinet

Height	332	mm
Width	424	mm
Depth	548	mm

Cavity

Cavity volume	27	l

Electrical

Voltage	230	V
Frequency	50	Hz
Current consumption	6.3	A
Fuse	8	A

Power

Power consumption	1500	W
Output power	850	W
Microwave frequency	2450	MHz

Timer

Electronic	99 min. 99 sec. 10-level microwave power level 4-stage programmed cooking

Accessories

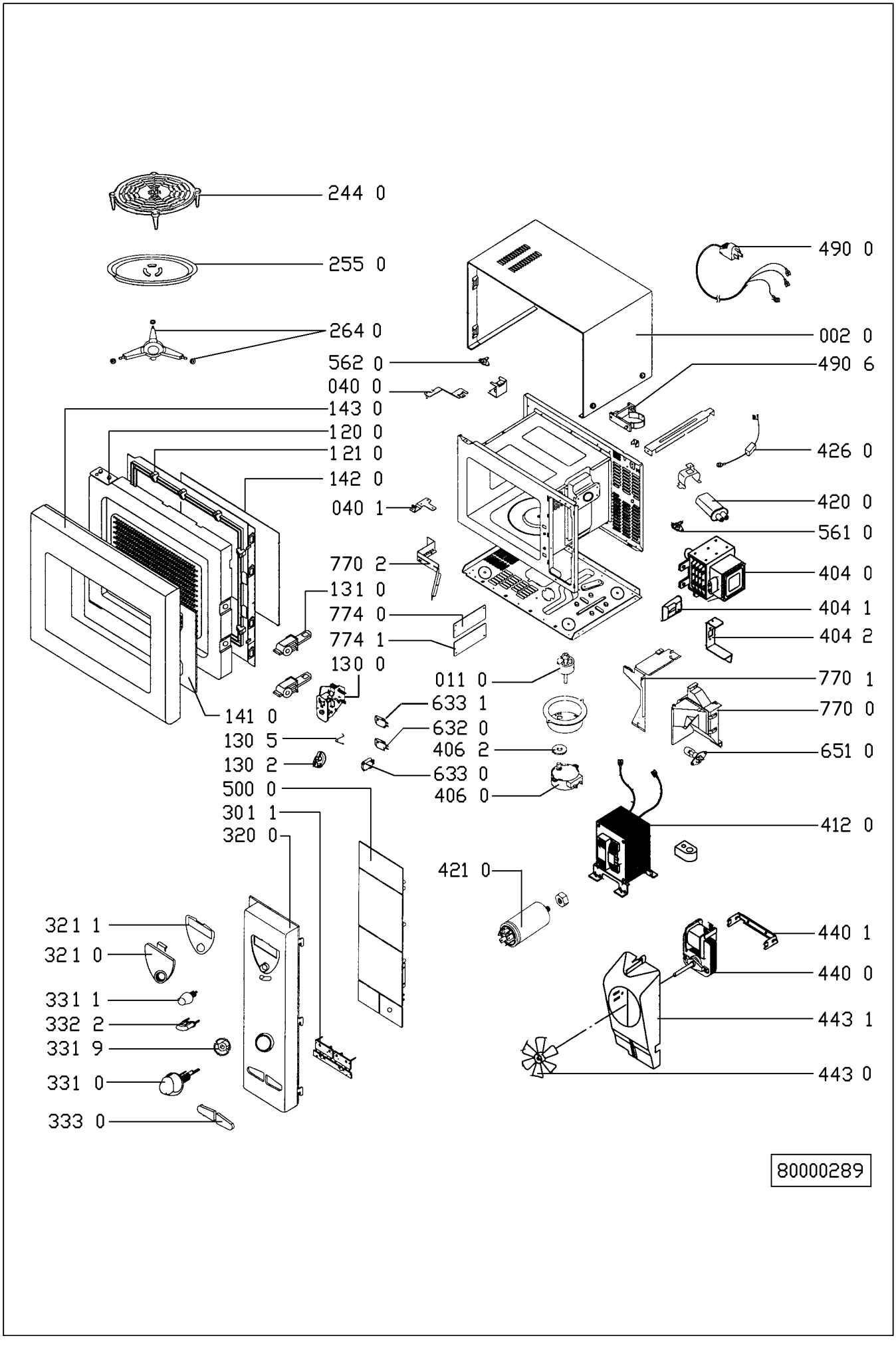
- Glass tray
- Turnable ring

Spare part list

Model **AVM 591**
Service No. **853859101291**
Version **853859101291**

Pos. No.	12NC Code	Description
002 0	**4812 442 28045**	Cabinet
011 0	**4819 902 00754**	Foot
040 0	**4819 902 00751**	Hinge upper
040 1	**4819 902 00752**	Hinge lower
120 0	**4819 902 00876**	Innerdoor,oven
121 0	**4819 902 00764**	Door frame inner
130 0	**4819 404 79412**	Door lock
130 2	**4819 902 00873**	Cam
130 5	**4819 902 00756**	Spring
131 0	**4819 902 00778**	Blocking door
141 0	**4819 450 58295**	Oven glass outer
142 0	**4819 902 00781**	Inner glass PE
143 0	**4819 459 48866**	Door frame outer
244 0	**4819 902 00757**	Grating defrost
255 0	**4819 418 79728**	Turntable glass
264 0	**4812 520 18074**	Ring
301 1	**4819 902 00766**	Button
320 0	**4819 453 58894**	Control panel
321 0	**4819 381 18244**	Display glass
321 1	**4812 450 68229**	Display window
331 0	**4819 412 58693**	Knob
331 1	**4819 412 58692**	Knob
331 9	**4819 492 68826**	Spring
332 2	**4819 410 29019**	Button clock set
333 0	**4819 410 29021**	Button start/stop
404 0	**4819 131 58019**	Magnetron
404 1	**4819 462 38901**	Cover
404 2	**4819 902 00775**	Holder
406 0	**4812 361 18262**	Motor Turntable
406 2	**4819 532 68844**	Spacer
412 0	**4819 145 78169**	Transformer,HT
420 0	**4812 121 48004**	Capacitor
421 0	**4819 902 00535**	Filter,mains
426 0	**4812 121 18189**	Diode
440 0	**4819 361 18452**	Motor
440 1	**4819 404 79414**	Holder
443 0	**4819 515 28197**	Fan
443 1	**4819 902 00875**	Guide
490 0	**4812 321 18069**	Cable
490 6	**4819 404 79411**	Bracket for cable
500 0	**4819 214 78627**	Control unit
561 0	**4819 902 00761**	Thermostat magnetron
562 0	**4819 902 00749**	Thermostat oven
562 1	**4819 902 00768**	Holder
632 0	**4819 902 00611**	Switch interlock/monitor
633 0	**4819 902 00609**	Switch security
633 1	**4819 902 00651**	Microswitch monitor
651 0	**4819 134 28051**	Lamp
770 0	**4819 902 00771**	Air guide
770 1	**4819 902 00755**	Air guide
770 2	**4819 902 00769**	Air guide
774 0	**4819 442 39109**	Mica plate uper
774 1	**4819 902 00753**	Mica plate lower

Exploded view



Wiring diagram